G[illegible]Y FERENC (DR.)

124

Budapest, Gyermekgyogyaszat, Vol. XIII, No. 1, Jan 62

1. "Biguanidin Preparations in the Treatment of Diabetic Children," by Dr Lajos [illegible], No 1 Pediatrics Clinic at the Budapest Medical University (Budapesti Orvostudomanyi Egyetem I. sz. Gyermekklinikaja); Prof Dr Pal [illegible] director (igazgato); pp 1-9.

2. "A Contribution to the Problem of [illegible] in Infants," by Dr Laszlo BALOGH and Dr Adrienne [illegible]; No 1 Pediatrics Department of the Pal HEIM Pediatrics Hospital of the Budapest Municipal Council (Fovarosi Tanacs Heim Pal Gyermekkorhaza I. sz. Csecsemoosztalya); pp 10-17.

3. "Agenesia Pulmonis," by Dr Janos [illegible], No 1 Pediatrics Clinic at the Budapest Medical University [see item 1]; pp 18-[illegible].

4. "The Simultaneous Occurrence of [illegible] of the Spleen, Pancreas Anulare, and Duodenum Atresia," by Dr [illegible] [illegible], Dr [illegible] [illegible] and Dr I. [illegible]; No 4 Pediatrics Clinic at the Budapest Medical University [see item 1]; pages [illegible].

5. "A Case of Infantile Paroxysmal Tachycardia Complicated with Methaemoglobinaemia," by Dr Pal [illegible], Dr [illegible] [illegible], and Dr Ferenc GYENEY; Pediatrics Clinic at the [illegible] Medical University (Szegedi Orvostudomanyi Egyetem Gyermekklinikaja); pp 2[illegible]-3[illegible].

6. "A Case of Successful Appendectomy Performed on a Nine-Day-Old Infant," by Dr Roza [illegible], Dr Karoly [illegible] and Dr Endre [illegible]; Agost SCHOEPF-MEREI Hospital of the Budapest Municipal Council (Budapest Fovarosi Tanacsa Schoepf-Merei [illegible] Korhaz), Dr Karoly [illegible] director (igazgato); and the [illegible] Hospital of the Council of District 13 (X. [illegible] Tanacs [illegible] Korhaza), director Dr Endre [illegible]; pp [illegible]-3[illegible].

300

— 1 —

BRIL', M.G.; GIMEYN, B.S.; GRISHIN, V.A.

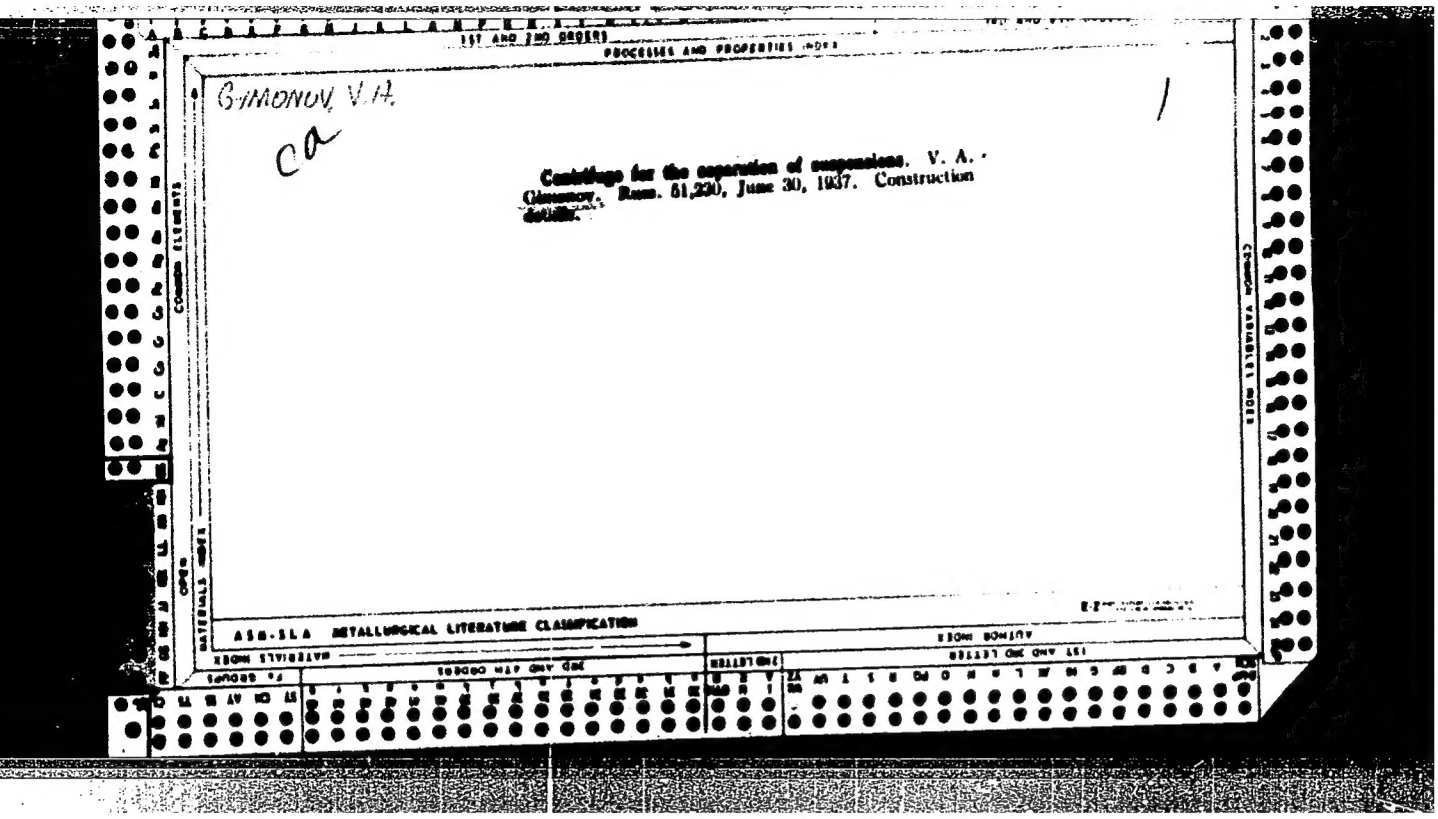
Prestressed concrete double-cantilever slabs for the roofs of industrial buildings. Prom. stroi. 39 no.5:34-36 '61. (MIRA 14:7)

(Roofs, Concrete) (Reinforced concrete construction)

GIMMERVERT, A. (Vinnitskaya obl.)

Trust is not a screen. Sov.profsoiuzy 19 no.2:20 Ja '63.
(MIRA 16:2)

(Winnitsa Province—Trade unions—Officers)
(State farms—Officials and employees)



GIMONOV, V.A., inzh.

Coolers for vacuum pumps of belt presses. Stroi.mat. 5 no.9:28 S '59. (MIRA 12:12)
(Ceramic industries--Equipment and supplies)

L 08178-67 EWT(1)
ACC NR: AP6024895 SOURCE CODE: UR/0056/66/051/001/0345/0360

AUTHOR: Pustovalov, V. V.; Simonov, Yu. A. 30 27 B

ORG: none

TITLE: Complete system of angle functions in the three-body problem for an arbitrary orbital angular momentum

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 51, no. 1, 1966, 345-360

TOPIC TAGS: wave function, group theory, eigenfunction, quantum theory, three body problem, Schrodinger equation

ABSTRACT: This is a continuation of earlier work by one of the authors (Simonov, YaF v. 3, 630, 1966), and leads to the development of a method for obtaining a complete system of independent wave functions in coordinate space, which constitute an irreducible representation of the rotation group in three dimensions and an irreducible representation of the permutation group of three particles, for arbitrary total angular momentum. The functions obtained are eigenfunctions of the total orbital angular momentum of the system (L) and its projection M on the z axis. The degree of polynomials K is the eigenvalue of the square of the global momentum in six-dimensional space. The expression for the polynomials with arbitrary L is written out explicitly, and takes on a very simple form for L = 1 and 2. The polynomials obtained constitute a convenient basis for the expansion of the wave functions of three nucleons. The symmetry properties are taken into account in very simple fashion and the Schrodinger equation

Card 1/2

L 08178-67

ACC NR: AP6024895

3

with spin and isospin taken into account goes over into a system of equations for the partial waves. It is possible to take into account in this manner the contribution of D waves to the wave functions of T and He^3, as well as higher partial waves in the problem for the continuum of three nucleons. In addition, the resultant functions constitute a basis for expansion of the amplitude of the decay of a particle of arbitrary spin into three particles. The authors thank A. M. Badalyan, Yu. A. Danilov, and Ya. A. Smorodinskiy for numerous discussions. Orig. art. has: 87 formulas.

SUB CODE: 20/ SUBM DATE: 19Feb66/ ORIG REF: 003/ OTH REF: 009

Card 2/2 nst

Gimoyan, G. G.

Subject : USSR/Electricity AID P - 4102

Card 1/2 Pub. 27 - 13/24

Author : Gimoyan, G. G., Kand. Tech. Sci., Moscow

Title : Compensation of the non-linearity of semiconducting rectifiers in distance relays.

Periodical : Elektrichestvo, 11, 69-74, N 1955

Abstract : The author discusses the problem of distance protection of long and heavily-loaded electric transmission lines and the difficulties arising in using distance relays with elements having linear or circular characteristics. The development of relays with non-linear elements, in particular of distance relay with a semiconducting rectifier, permits obtaining elliptic or hyperbolic characteristics (detector type relay) which not only ensures the necessary independence of the sending-end impedance, but also has other favorable characteristics, which the author discusses.

Elektrichestvo, 11, 69-74, N 1955

AID P - 4102

Card 2/2 Pub. 27 - 13/24

However, because of imperfections of the existing methods of compensation of nonlinearity, large power losses occur. The author presents new methods of compensating the non-linearity of the volt-ampere characteristic of semiconducting rectifiers. These methods can also be applied for other than relay circuits, such as measuring, magnetic amplifier and those using semiconducting rectifiers. One table, 7 diagrams, 4 Soviet references (1952-1954).

Institution : Moscow Power Engineering Institute im Molotov

Submitted : S 30, 1954

GIMOYAN, G.G., kandidat tekhnicheskikh nauk; GLUSHKO, V.V., inzhener; SKOMOROKHOV, I.M., tekhnik.

Protection of three-page motors against two-phase operations
Prom.energ. 11 no.9:15-18 S '56. (MLRA 9:11)
(Electric motors)

GIMOYAN, G.G., kandidat tekhnicheskikh nauk.

New protection for three-phase electric motors and feeders.
Izobr.v SSSR 2 no.5:16-17 My '57. (MLRA 10:7)
(Electric motors, Polyphase) (Electric cutouts)

GIMOYAN, G.G.

105-7-11/29

AUTHOR: GIMOYAN, G.G., cand.tech.sc.

TITLE: ~~A practical~~ Method of Calculating Relays with Rectifiers. (Inzhenernaya metodika rascheta rele s vypryamitelyami, Russian)

PERIODICAL: Elektrichestvo, 1957, Nr 7, pp 50-53 (U.S.S.R.)

ABSTRACT: Computation of relays with semiconductor rectifiers meets with some difficulties as their schemes are nonlinear bipolars with respect to the alternating current circuit.

The analytical determination of the connection of electric quantities at the input and output of the rectifier is connected with the solution of complicated transcendental equations. It is therefore useful, by applying Ohm's law, to represent the schemes in form of linear bipolars.

Here the necessary correction coefficients for such a transformation are determined by means of the method of the linearization (see: V.G.KOMAR "Operation of Semiconductor Rectifiers in Control Current Circuits", Gosenergoizdat, 1952). Accordingly, the voltage at the input of the rectifier is assumed to be sinusoidal, the current is decomposed into harmonic components and for each of these an equivalent scheme is formed and therefrom the correction coefficients are found.

Card 1/2

105-7-11/29

A practical Method of Calculating Relays with Rectifiers.

For practical purposes it is sufficient to investigate only the equivalent scheme for the first harmonic. The rectifier work in the case of a relay with one, and in the case of a relay with two windings is investigated.

In conclusion a concrete example is solved.

ASSOCIATION: Donets Scientific Research Institute for Coal (Donetskiy nauchno-issledovatel'skiy ugol'nyy institut)

PRESENTED BY:
SUBMITTED: 3.12.1956
AVAILABLE: Library of Congress

Card 2/2

GIMOYAN, G.G.

SHISHKIN, N.F.; kand.tekhn.nauk; SMORODINSKIY, Ya.M., kand.tekhn.nauk; MIKHEYEV, Yu.A., inzh.; SHALAGINOVA, T.S., inzh.; GIMOYAN, G.G., kand.tekhn.nauk.

Filter-type relay protection for electric motors. Elektrichestvo no.12:60-64 D '57. (MIRA 10:12)

1.Vsesoyuznyy nauchno-issledovatel'skiy ugol'nyy institut (for Shishkin) 2.Donetskiy nauchno-issledovatel'skiy ugol'nyy institut (for Gimoyan).

(Electric motors)

GIMOYAN, G.G.

110-10-13/18

AUTHOR: Gimoyan, G.G., Candidate of Technical Sciences.

TITLE: Some Special Features of Relays with Semi-conductor Rectifiers. (Nekotoryye osobennosti rele s poluprovodnikovymi vypryamitelyami)

PERIODICAL: Vestnik Elektropromyshlennosti, 1957, Vol.28, No.10, pp. 65 - 68 (USSR)

ABSTRACT: Magneto-electric and polarised relays are becoming more widely used because of developments in semi-conductor rectifiers. This review considers certain special features of these relays. Magneto-electric relays are much more sensitive than electro-magnetic or induction relays because of the presence of a permanent magnet. Polarised relays type РП-4 and РП-5 have an operating power of only 0.01 - 0.16 mW. The relays operate very rapidly. Because of the lightness of the moving part and the small travel they may have operating times of 0.001-0.002 seconds. A high speed relay is illustrated in Fig. 2a and the circuit is given in Fig. 2b. If there is no current in the operating coil the flux of the permanent magnet closes through the coil core and the relay contacts remain open. When current passes through the operating coil the magnet flux is displaced from the core and operates the moving arm.

Because of their special features, relays with semi-conductor rectifiers can apply considerable pressures to the

Card 1/2

GIMOYAN, G. G. (Cand. Tech. Sci.)

"Protective and Automation Relays With Semiconductor Rectifiers"

(Use of Semiconductors in Instrument Making; Transactions of a Conference)
Moscow, Mashiz, 1958. 258 p.

GAVRILOV, N.I., GIMPEL', V.V. (Podol'sk)

Planning a public health network and the personnel required.
Zdrav. Ros. Feder. 2 no.12:31-33 D '58 (MIRA 11:12)
(PUBLIC HEALTH)

Sov/100-58-6-2/11

AUTHOR: Yes'man, I.G., Engineer; Gimpelev, A.G., Engineer.

TITLE: Mechanisation of the Building Trade carried out in the Building Organisations of the Ministry of Building in the Belorussian SSR. (Mekhanizatsiya stroitel'nykh rabot v organizatsiyakh Ministerstva stroitel'stva Belorusskoy SSR.)

PERIODICAL: Mekhanizatsiya Stroitel'stva 1958. No. 6 USSR. Pp 6-10

ABSTRACT: As a result of the amalgamation of building organisations in Belorussia the Minstroy has acquired more than 1400 units of heavy machinery consisting of 214 excavators, 262 scrapers and bulldozers 264 tower cranes and a number of lorry-mounted cranes and loaders. Furthermore it acquired 3000 medium building machines and 7000 units of other technical equipment. Table 1 gives figures for the increase of mechanisation of the building trade and Table 2 figures for the increase of total mechanisation. The completion of the construction of stone crushing plant with a capacity of 250,000m^3 per year and 2 similar plants each with a capacity of 250,000m^3 per year cover the requirements of the building industry. As a result of the building organisations' amalgamation Stroymechanizatsiya No. 15 and Trust Stroymontazh No. 16 were formed. In the former building machines and equipment are concentrated and in the latter tower cranes and track-mounted cranes. Tower crane-loader BKSM-5-PU with

Card 1/2

Mechanisation of the Building Trade carried out in the Building Organisations of the Ministry of Building in Belorussian SSR

a capacity of 5 tons was introduced. Mechanics Moroshek, Sapozhnikov and Cherepakhov of Trust No.4 designed and constructed an electromagnetic vibrator. Mechanics Livshits and Eydel'man of Trust Santekhmontazh No. 17 invented a new manufacturing method for drainage pipes. Shakov designed and constructed a compensator for equalising tensions on wires of prestressed reinforcement. Pneumatically operated tower and track-mounted cranes are concentrated in Promtekhmontazh Trust No. 19. There are 2 Tables and 5 Figures.

Card 2/2 1. Construction--USSR 2. Construction--Equipment

GIMPELEV, A.G., inzh.

Mechanization of building and assembling operations on construction sites of the Ministry of Construction of the White Russian S.S.R. Mekh. stroi. 17 no:6:3-4 Je '60. (MIRA 13:6)

(White Russia--Building machinery)

YES'MAN, I.G., inzh.; GIMPELEV, A.G., inzh.

Best engineers of White Russia. Mekh. stroi. 20 no.8:1 Ag '63. (MIRA 16:11)

KOZLOV, Vasiliy Pavlovich; TOKAREV, Lev Vladimirovich; GIMPELEVICH, E.D., redaktor; SHOROKHOVA, L.I., vedushchiy redaktor; KHLEBNIKOVA, L.A., tekhnicheskiy redaktor

[Principles for the genetic classification of caustobiolites] Osnovy geneticheskoi klassifikatsii kaustobiolitov. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1957. 86 p. (MLRA 10:4)
(Caustobiolites)

IL'INA, N.S., kand.geologo-mineralog.nauk; YELINA, L.M.; RYZHOVA, A.A.; BUZINOVA, V.M.; DMITRIYEVA, L.Ya.; [redacted]; GALAKTIONOVA, N.M.; IL'INSKAYA, V.V.; SOLOV'YEVA, N.S.; KARASEV, M.S.; BAKIROV, A.A., red.; VEBER, V.V., red.; DANOV, A.V., red.; DIKENSHTEYN, G.Kh., red.; MAKSIMOV, S.P., red.; POZNYSH, M.A., red.; SAIDOV, M.N., red.; SEMIKHATOVA, S.V., red.; TURKEL'TAUB, N.M., red.; UL'YANOV, A.V., red. [deceased]; KHALTURIN, D.S., red.; SHABAYEVA, Ye.V., red.; CHIZHOV, A.A., vedushchiy red.; YASHCHURZHINSKAYA, A.B., tekhn.red.

[Coal deposits of the central provinces of the Russian Platform] Kamennougol'nye otlozheniia tsentral'nykh oblastei Russkoi platformy. Pod red. N.S.Il'inoi. Leningrad, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1958. 209 p. (MIRA 12:3)
(Russian Platform--Coal geology)

FILIPPOVA, Mariya Filippovna, kand.geol.-miner.nauk; ARONOVA, S.M.; AFREMOVA, M.F.; GALAKTIONOVA, N.M.; GASSANOVA, I.G.; GIMPELEVICH, E.D.; KARASEV, M.S.; LYASHENKO, A.I.; MAYZEL', Z.L.; RATEYEV, M.A.; SOKOLOVA, L.I.; SOLOV'YEVA, N.S.; KHANIN, A.A.; SHISHENINA, Ye.P.; SHNEYDER, N.P.; BAKIROV, A.A., red.; VEBER, V.V., red.; DANOV, A.V., red.; DIKENSHTEYN, G.Kh., red.; MAKSIMOV, S.P., red.; POZNYSH, M.A., red.; SAIDOV, M.N., red.; SEMIKHATOVA, S.V., red.; TURKEL'TAUB, N.M., red.; UL'YANOV, A.V., red. [deceased]; KHALTURIN, D.S., red.; SHABAYEVA, Ye.A., red.; RAZINA, G.M., vedushchiy red.; GENNAD'YEVA, I.M., tekhn. red.

[Devonian deposits in the central provinces of the Russian Platform] Devonskie otlozheniia tsentral'nykh oblastei Russkoi platformy. Pod red. M.F.Filippovoi. Leningrad, Gos. nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1958. 404 p. (MIRA 11:4)
(Russian Platform--Geology, Stratigraphic)

GIMPELEVICH, R.D.; SIMONOVA, R.Ya.

Method for fast determination of organic carbon in rocks. Trudy VNIGNI no.11:278-283 '58. (MIRA 13:1)
(Rocks--Analysis) (Carbon)

GIMPELEVICH, E.D.

Chemical composition of Tertiary bitumens in central and northeastern Ciscaucasia. Trudy VNIGNI no.17:54-105 '59. (MIRA 13:1)
(Caucasus, Northern--Bitumen--Analysis)

GIMPELEVICH, E.D.

Hydrocarbons in trace elements of Tertiary sediments in central and northeastern Ciscaucasia. Trudy VNIGNI no.17: 106-114 '59. (MIRA 13:1)
(Caucasus, Northern--Hydrocarbons)

GIMPELEVICH, E.D.; KORCHAGINA, Yu.I.

Fixed bitumen "S" in sedimentary rocks. Trudy VNIGNI no.27:88-97 '60. (MIRA 17:3)

YERFMENKO, N.A.; GIMPELEVICH, E.D.; IL'INA, A.A.

Some general regularities in the change of disseminated organic matter in relation to geological age. Geol. nefti i gaza 5 no.11: 35-40 N '61. (MIRA 14:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut, Moskva.
(Petroleum geology) (Gas, Natural--Geology)

KOROLEVA, M.A.; PLETNIKOV, K.V., obshchiy redaktor; GIMPELEVICH, M., redaktor; GORILOVSKAYA, L., tekhnicheskiy redaktor.

[Technique of motion-picture projection] Tekhnika kinoproektsii. Pod obshchei red. K.V.Pletnikova. Moskva, Goskinoizdat, 1951. 330 p. (Motion-picture projection) (MLRA 8:2)

GIMPELEVICH, S., inzhener

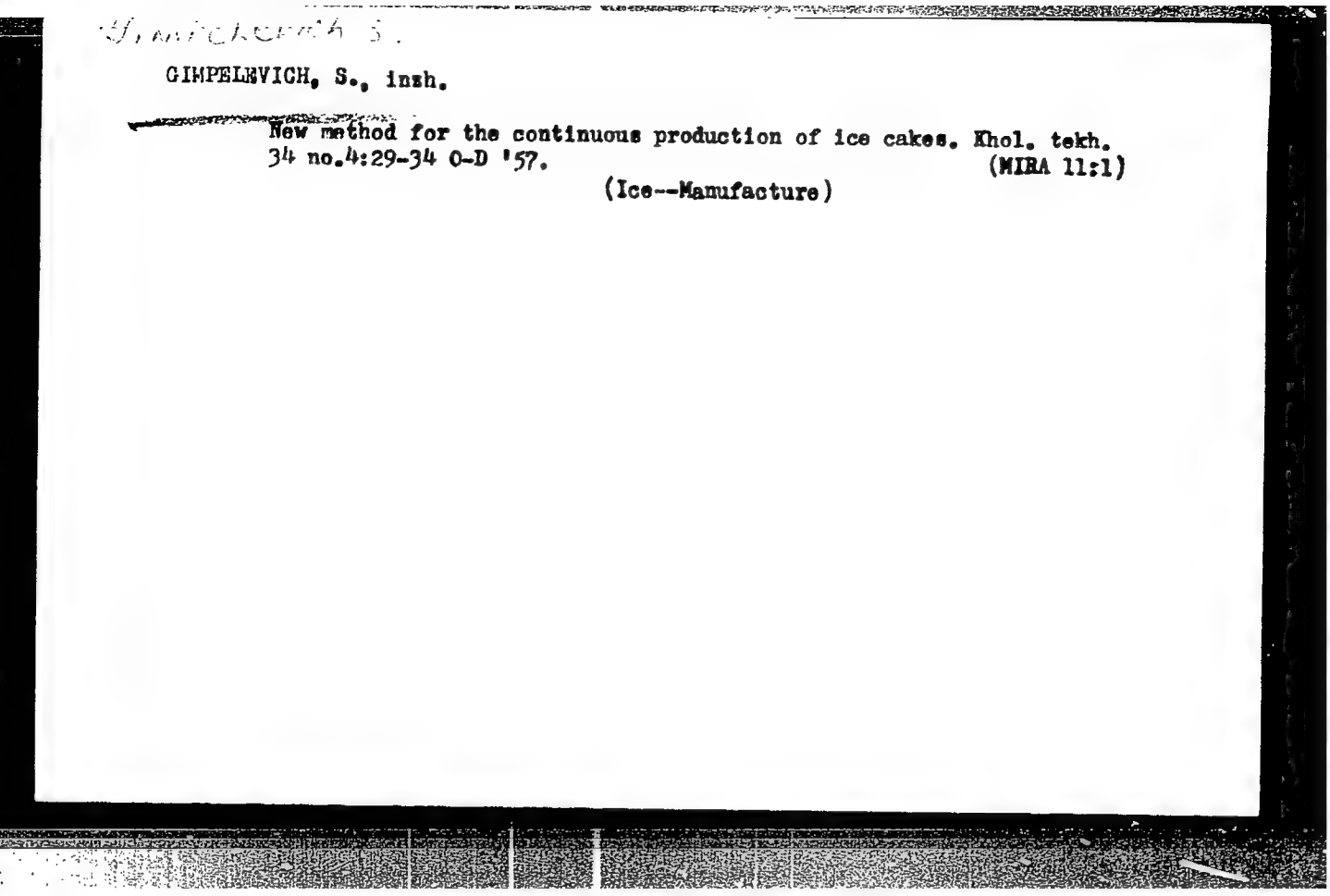
Freight car for dry ice transportation. Khol.tekh. 32 no.1:31-36 Ja-Mr '55. (MLRA 8:7)
(Dry ice--Transportation) (Railroads--Freight cars)

GIMPELEVICH, S., inzhener.

Decentralized cooling of refrigeration chambers. Khol.tekh. 32 no.4:17-20 O-D '55. (MLRA 9:4)
(Refrigeration and refrigerating machinery)

GIMPELEVICH, S., inzhener.

Defining method for the determination of heat transmission coefficients through casings of isothermal compressors. Khol.tekh.33 no.2:18-23 Ap-Je '56. (MLRA 9:9)
(Air compressors--Testing) (Heat--Transmission)



Gimpelevich S.

GIMPELEVICH, S., inzh.

New method for the continuous production of ice cakes. Khol. tekh. 34 no.4:29-34 O-D '57. (MIRA 11:1)

(Ice--Manufacture)

MARTYNOV, Mikhail Stepanovich; NITOCHKIN, Aleksandr Yefimovich; GIMPELEVICH, Samuil L'vovich; CHICHKOV, N.V., red.; KISELEVA, A.A., tekhn.red.

[Refrigerated transportation] Kholodil'nyi transport. Moskva, Gos.izd-vo torg.lit-ry, 1960. 175 p. (MIRA 13:12)
(Refrigerator cars) (Refrigerator ships)
(Refrigerated motortrucks)

GIMPELEVICH, S. L.

Kholodil'nyy Transport (By) M.S. Martynov, A. Ye. Mitochkin, (1) S.L. Gimpelevich. Moskva, Gostorgizdat, 1960.
175 p. illus., diagrs., tables.
Bibliography: p. 173-174.

PA 30T90

GIMPELEVICH, YE.

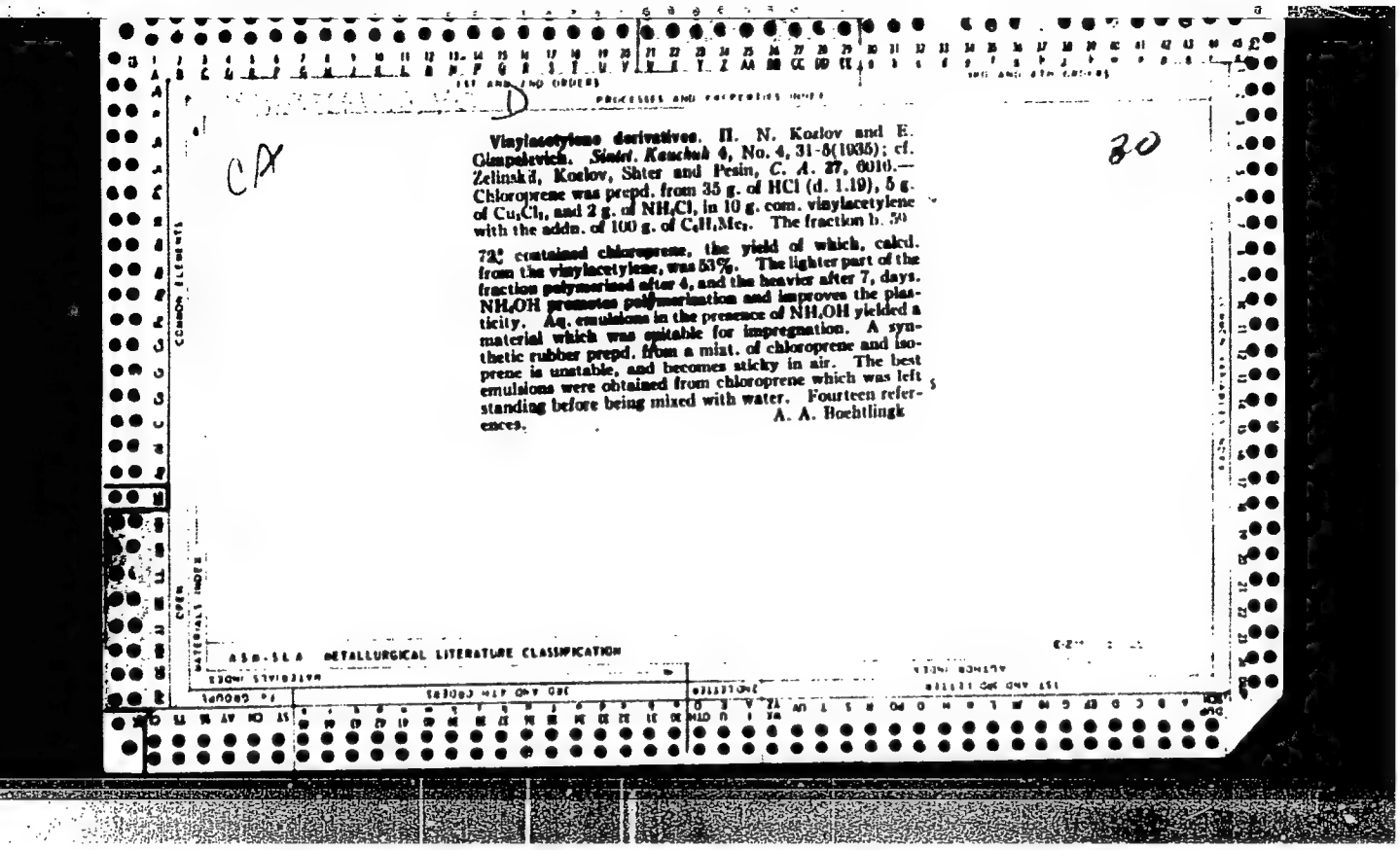
USSR/Ships Oct 1947
Tools, Pneumatic
Drills, Pneumatic

"The Use of Pneumatic Instruments in Fitting Work," Ye. Gimpelevich, Engr, 4 pp

"Morskoy Flot" No 10, pp. 35-38

Discussion of the use of pneumatic drills, hammers, etc., in finishing and fitting work.

LC 30T90



Vinylacetylene derivatives. II. N. Kozlov and E. Glupalevich. *Sintet. Kauchuk* 4, No. 4, 31-5(1935); cf. Zelinskiĭ, Kozlov, Shter and Pesin, *C. A.* 27, 6010.—Chloroprene was prepd. from 35 g. of HCl (d. 1.19), 5 g. of Cu_2Cl_2, and 2 g. of NH_4Cl, in 10 g. com. vinylacetylene with the addn. of 100 g. of $C_6H_4Me_2$. The fraction b. 50-72° contained chloroprene, the yield of which, calcd. from the vinylacetylene, was 53%. The lighter part of the fraction polymerized after 4, and the heavier after 7, days. NH_4OH promotes polymerization and improves the plasticity. Aq. emulsions in the presence of NH_4OH yielded a material which was suitable for impregnation. A synthetic rubber prepd. from a mixt. of chloroprene and isoprene is unstable, and becomes sticky in air. The best emulsions were obtained from chloroprene which was left standing before being mixed with water. Fourteen references. A. A. Boehtlingk

CA

10

Catalytic condensation of acetylene with aromatic amines. IV. Condensation of acetylene with aniline and *p*-toluidine in the presence of silver nitrate. N. S. Kozlov and R. Glaupelevich. *J. Gen. Chem.* (U. S. S. R.) 6, 1341-8(1936); cf. C. A. 30, 4004[4]; 31, 1026[8].—Conducting dry C_2H_2 into PhNH$_2$ and *p*-$MeC_6H_4NH_2$ (at 80°) in the presence of $AgNO_3$ gave mixts. of stereoisomeric diethylideneaniline bases (cf. Eibner, *Ann.* 318, 64; Miller, Plöchl and Eckstein, *Ber.* 25, 2020, 2072). These bases on distn. gave quinaldine and *p*-methylquinaldine, resp., and some tetrahydroquinaldines. **V. Condensation of acetylene with *o*- and *p*-anisidine in the presence of Cu_2Cl_2 and $HgCl_2$.** N. S. Kozlov and R. Bogdanovskaya. *Ibid.* 1346-8.—Treating *o*- and *p*-anisidine in toluene in the presence of Cu_2Cl_2 and $HgCl_2$ with excess C_2H_2 formed the corresponding diethylideneanisidines. These bases on distn. gave *o*- (I) and *p*-methoxyquinaldine (II). Conducting the reaction in alc. and allowing the reaction product to crystallize resulted in *diethylidene-o-anisidine*, m. 102.5° (Me$_2$CO); this on distn. gave I, m. 123.5°. *p*-Anisidine gave 2 stereoisomeric *diethylidene-p-anisidines*, m. 90° and 160°. These on heating gave II, b$_{20}$ 170.0°. **VI. Condensation of acetylene with aniline in the presence of mercurous chloride, mercuric chloride and mercuric bromide.** N. S. Kozlov, B. Dunaburskaya and T. Rubina. *Ibid.* 1349-51.—The condensation resulted in diethylideneaniline and quinaldine identical with those obtained with the use of CuCl and $CuCl_2$ (cf. C. A. 30, 4004[4]) and $AgNO_3$. **VII. Condensation of acetylene with aniline in the presence of mercuric iodide.** N. S. Kozlov and R. Pachankova. *Ibid.* 1352-4. The results are the same as above. Chas. Blanc

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

MAMEDOV, Shamkhal; GIMPELEVICH, E.D.

Investigating the glycol ethers. Izv. AN Azerb. SSR no.10:41-48 O '56. (MIRA 10:3)

(Glycols) (Polymers)

[illegible], A. T., Engineer

Mbr., TsNIITMASh (Central Scientific-Research Inst. of Tech. and Mach. Bldg.) (-1945-)

"Making Cast Tools with Minimum Allowances for Grinding," Stanki I Instrument, 16, No. 3, 1945

BR-52059019

GRIGELSON, A.I.

"Production of Cast Ring Shaped Specimens for Investigation of Creep and Relaxation of Metals"--pp. 95-105

A paper contained in the symposium "A New Method of Investigation of Relaxation and Creep of Metals," edited by I.A. Oding, Mashgiz, 1949

BAYAR, O.G., kand. arkhitektor, redaktor; GIMPEL'SON, A.Z., redaktor; TYAPKIN, B.G., tekhnicheskiy redaktor.

[Fitting and finishing apartment houses] Oborudovanie i otdelka pomeshchenii mnogoetazhnykh zhilykh domov. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture. No.1. 1954. 47 p. [Microfilm] (MIRA 8:2)

1. Akademiya arkhitektury SSSR, Moscow. Nauchno-issledovatel'skiy institut arkhitektury zhilishcha.
(Apartment houses) (Building fittings)

GIMPEL'SON, A.Z.

VOLZHENSKIY, A.V., professor, doktor tekhnicheskikh nauk; KOGAN, G.S., kandidat tekhnicheskikh nauk; ARBUZOV, N.T., kandidat tekhnicheskikh nauk; SOROKER, V.I., kandidat tekhnicheskikh nauk, redaktor; GIMPEL'SON, A.Z., redaktor; LYUDKOVSKAYA, N.I., tekhnicheskiy redaktor

[Gypsum-concrete panels for partitions and inner lining of outside walls] Gipsobetonnye paneli dlia peregorodok i vnytrennei oblitsovki naruzhnykh sten. Moskva, Gos. izd-vo lit-ry po stroitel'nym materialam, 1955. 184 p. (MLRA 9:7)

1. Chlen-korrespondent Akademii arkhitektury SSSR (for Volzhenskii)
(Concrete slabs)

GEMPELSON A.Z.

LIVSHITS, Mikhail Naftol'yevich; BALABANOV, Ye.M., doktor fiziko-matematicheskikh nauk, nauchnyy redaktor; GEL'PERIN, N.B., kandidat tekhnicheskikh nauk, nauchnyy redaktor; GIMPELSON, A.Z., redaktor; GLADKIKH, N.N., tekhnicheskiy redaktor

[Electric methods of painting, enameling and glazing] Elektricheskie metody okraski, emalirovaniia i glazurovaniia izdelii. Moskva, Gos. izd-vo lit-ry po stroit. materialam. 1956. 111 p. (MLRA 10:3)
(Spray painting) (Enamel and enameling) (Glazing)

DUVANKOV, Georgiy Semenovich; CHERNYAK, Ye.N., kandidat tekhnicheskikh nauk, redaktor; GIMPEL'SON, A.Z., redaktor; TEREMETSKIY, K.N., inzhener, retsenzent; KOTLYAROV, Ye.L., inzhener, retsenzent; GLADKIKH, N.N., tekhnicheskiy redaktor

[Safety measures and factory sanitation in building material plants] Tekhnika bezopasnosti i proizvodstvennaia sanitariia na zavodakh stroitel'nykh materialov. Pod red. IA.N. Cherniaka. Moskva, Gos. izd-vo lit-ry po stroit. materialam, 1956. 133 p. (MIRA 10:4)
(Building materials industry) (Factory sanitation)
(Factories--Safety appliances)

GIMPEL'SON A.Z.

KUKULEVICH, I.L.; LYUDVIG, A.A.; SHABARIN, A.K., redaktor; GIMPEL'SON, A.Z., redaktor; LYUDKOVSKAYA, N.I., tekhnicheskiy redaktor

[The organization of wages in enterprises furnishing local building materials] Organizatsiia zarabotnoi platy na prdpriiatiiakh mestnykh stroitel'nykh materialov. Pod red. A.K.Shabarina. Moskva, Gos. izd-vo lit-ry po stroit. materialam, 1956. 229 p. (MLRA 9:8)
(Building materials industry) (Wages)

NESVIZHSKIY, Oskar Abramovich, KOZLOV, Sergey Mikhaylovich.; GIMPEL'SON, A.Z., red.; GILENSON, P.G., tekhn. red.

[Equipment of the cement industry in Czechoslovakia] Oborudovanie tsementnoi promyshlennosti Chekhoslovakii. Moskva, Gos. izd-vo lit-ry po stroit. materialam, 1957. 73 p. (MIRA 11:11)
(Czechoslovakia--Cement plants--Equipment and supplies)

LOGINOV, Z.I.; GIMPEL'SON, A.Z., red.; PYATAKOVA, N.D., tekhn.red.

[Distribution of the production and transport of cement] Razmeshchenie proizvodstva i perevozki tsementa. Moskva, Gos. izd-vo lit-ry po stroit. materialam, 1957. 114 p. (MIRA 11:3)
(Cement industries)

POKROVSKIY, Georgiy Iosifovich, professor; FEDOROV, Il'ya Sergeyevich, professor; ASSONOV, V.A., nauchnyy redaktor; GIMPELSON, A.Z., redaktor; GILENSON, P.G., tekhnicheskiy redaktor

[Force of impact and explosion on the deformation area] Deistvie udara i vzryva v deformiruemykh sredakh. Moskva, Gos.izd-vo lit-ry po stroit.materialam, 1957. 275 p. (MIRA 10:11)
(Blast effect)

KAZINITSKIY, Mikhail Il'ich; POPOV, A.N.; SEDOV, A.P., nauchnyy redaktor; GIMPEL'SON, A.Z., redaktor; PYATAKOVA, N.D., tekhnicheskiy redaktor

[Building materials for few-story dwellings] Stroitel'nye materialy dlia maloetazhnykh zhilykh domov. Pod red. A.N.Popova. Moskva, Gos.izd-vo lit-ry po stroit.materialam, 1957. 331 p. (MLRA 10:7)

1. Deystvitel'nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Popov)
(Building materials)

GIMPEL'SON, D.I., podpolkovnik med. sluzhby

Some changes in the method for preparing artificial radon baths.
Voen. med. zhur. no.3:75-77 Mr '58 (MIRA 12:7)
(RADIUM
artif. radon baths, method of prep. (Rus))

GIMPEL'SON,S.

Be concrete in management and give daily help to the artels. Prom. koop. no.6:43-45 Je'55. (MLRA 8:11)

1. Predsedatel' pravleniya Lengorshveytrikotazhpromsoyuza (Leningrad--Clothing industry)

GIMPL, F.; WEISSFEILER, J.

Studies on the antigenic structure of mycobacteria with the gel diffusion technique. Acta microbiol. Hung. 9 no.2:175-181 '62.

1. Department of Microbiology, Institute of Experimental Medicine of the Hungarian Academy of Sciences, Budapest (Director: I. Rusznyak).
(MYCOBACTERIUM) (ANTIGENS)

GIMPL, F.

Antigenic structure of saprophytic mycobacteria. Acta mikrobiol. acad. sci. Hung. 12 no.1:1-6 '65.

1. Department of Pulmonary Diseases (Director: G. Miskovits), University Medical School, Budapest.

GIMPL, Ferenc; WEISZFEILER, Gyula

Comparative analysis of the antigen structure of microbacteria by means of gel diffusion method. Biol orv kozl MTA 13 no.3: 219-226 '62.

1. Magyar Tudomanyos Akademia Kiserleti Orvostudomanyi Kutato Intezete Mikrobiologiai Osztalya. 2. Magyar Tudomanyos Akademia levelezo tagja (for Weiszfeiler).

L 14893-66
ACC NR: AT6007403 SOURCE CODE: HU/2505/65/026/00X/0025/0025

AUTHOR: Biro, J.; Gimpl, F.

ORG: Department of Pulmonary Diseases, Department of Urology, Medical University of Budapest (Budapesti Orvostudomanyi Egyetem, Urologiai es Tudogyogyaszati Tanszekek)

TITLE: Immune diffusion studies of smooth muscle extracts [This paper was presented at the 29th Meeting of the Hungarian Physiological Society held in Szeged from 2 to 4 July 1964]

SOURCE: Academia scientiarum hungaricae. Acta physiologica, v. 26, Supplement, 1965, 25

TOPIC TAGS: antigen, immunology, protein, myology, rabbit, serum

ABSTRACT: Investigations have been carried out in order to determine whether smooth muscles contain specific protein components different from those in other tissues, mainly in striated muscles. Homogenates of different smooth muscles of the dog were extracted with a 0.154 M KCl solution. The supernatant fluid obtained after centrifugation was examined as a myogen solution, the sediment, extracted with Weber's

Card 1/2

L 14893-66

ACC NR: AT6007403

solution, was examined as a structure protein solution. Extracts were also prepared from striated muscles and parenchymal organs by a similar procedure. Rabbits were immunized with the extracts and the antigens were combined with pure or absorbed immune sera. It was shown that the "anti-smooth muscle myogen" immune serum contains two components while the immune serum against smooth muscle structural protein contains one specific antigenic component. The potential role of these antigenic components in smooth muscle activity has been discussed. [JPRS]

SUB CODE: 06 / SUBM DATE: none

Card 2/2

GIMRANOV, M.G.

Role of Proteus in experimental Staphylococcus infections. Zhur. mikrobiol.epid. i immun. no.8:105 Ag '55 (MLRA 8:11)
(PROTEUS) (STAPHYLOCOCCUS)

GIMRANOV, M.G.

Biological properties of Proteus; author's abstract. Zhur. mikrobiol.epid. i immun. 29 no.2:127-128 F '58. (MIRA 11:4)

1. Iz kafedry mikrobiologii Bashkirskogo meditsinskogo instituta.
(PROTEUS)

GIMRANOV, M.G.

Dynamics of a change in the oxidation-reduction potential and pH in media of pure and mixed cultures. Report No.2: Changes in the oxidation-reduction potential and pH in media of pure and mixed cultures of Proteus, Staphylococcus aureus and Bacillus pyocyaneus. Zhur.mikrobiol. epid. i immun. 32 no.4:92-98 Ap '61. (MIRA 14:6)

1. Iz kafedry mikrobiologii Bashkirskogo meditsinskogo instituta.
(PROTEUS) (STAPHYLOCOCCUS) (PSEUDOMONAS)

GIMRANOV, M.G.

Dynamics of changes in the oxidation-reduction potential and the pH of the medium in pure and mixed bacterial cultures. Report No.3: Changes in the oxidation-reduction potential and the pH of the medium in pure and mixed cultures of Staphylococcus aureus, Proteus, Bacillus pyocyaneus, Escherichia coli, and Bacterium prodigiosum. Zhur. mikrobiol. epid. i immun. 33 no.10:139-140 O'62 (MIRA 17:4)

1. Iz Bashkirskogo meditsinskogo instituta.

GIMRANOV, M.G.

Dynamics of the changes in the oxidation-reduction potential and pH medium in pure and mixed bacterial cultures. Report No.4: Dynamics of the changes in the oxidation-reduction potential in cultures of pyogenic bacteria on a synthetic medium. Zhur. mikrobiol., epid. i immun. 42 no.8:58-62 Ag '65. (MIRA 18:9)

1. Bashkirskiy meditsinskiy institut.

ZHIDELEV, Mikhail Aleksandrovich, starshiy nauchnyy sotr.; BEL'BURT, B.Ye.; PROTASOVSKIY, G.A.; FIGANOV, I.S.; Prinimali uchastiye: KOVAL'SKIY, M.I.; SANDOMIRSKIY, I.G.; GIMRANOV, M.V.; TSIKALOV, V.A., red.; POLUKAROVA, Ye.K., tekhn. red.

[Secondary school production training in mechanical engineering] Proizvodstvennoe obuchenie v srednei shkole po mashinostroitel'nym professiiam; metodicheskoe posobie dlia prepodavatelei i instruktorov proizvodstvennogo obucheniia. Pod red. M.A.Zhideleva. Moskva, Izd-vo APN RSFSR, 1962. 141 p. (MIRA 15:12)
(Technical education)

L 47376-65 EEO-2/EPF(c)/EPF(n)-2/EPF/EWG(a)-2/EWG(c)/EWG(j)/EPA(c)-2/EWG(v)/
EPA(w)-2/EWA(h)/EWP(j)/EWT(l)/EWT(m)/EWP(l)/EPA(bb)-2/EWG(m)/EWP(b)/T/EEC(j)/EWA(t)/
EWP(e)/EWP(v)/EWP(t) Pc-4/Pe-5/Pi-4/Pu-4/Pq-4/Pr-4/Ps-4/Pt-7/Pu-4/Pab-10/Peb-
ACCESSION NR: AP5008724 UR/0209/65/000/003/0030/0033 12 2
MH/GW/WW/JD

AUTHOR: Savchenko, A. (Engineer, Captain, Candidate of technical sciences); B
Gimranova, F. (Candidate of chemical sciences)

TITLE: Spacecraft heat shielding 15

SOURCE: Aviatsiya i kosmonavtika, no. 3, 1965, 30-33 47

TOPIC TAGS: spacecraft, reentry vehicle, reentry heating, ablative heat transfer, quartz

ABSTRACT: The authors discuss ablation and the ablative heat shielding of reentry vehicles and make a general comparison of laminated plastics, fillers, resins, ablation rates, and various reinforcing agents. Emphasis is placed on the use of quartz and ceramic fibers in reinforced plastics, as well as recently developed graphite fibers which possess great strength at up to 2500° C. Mention is made of U.S. interest in organic "pluton" fiber and the proposed use of sitalls which have constant dielectric properties and which pass decimeter radiowaves. While much of the article is obviously from non-Soviet sources, it may well be that some of the

Card 1/2

L 47316-65
ACCESSION NR: AP5008724

material is of Soviet origin and could indicate Soviet trends and interest in ablating reentry technique. Orig. art. has 3 graphs, 1 figure, and 2 tables.

ASSOCIATION: none

SUBMITTED: 00	ENCL: 00	SUB CODE: SV, MT
NO REF SOV: 000	OTHER: 000	ATD PRESS: 3245-F

Card 2/2 cc

GIMZAUSKAS, J., med. m. kand.; BLOCHAS, C. med. m. kand.; IVASAUKAS, H.

A severe and rare case of non-specific ulcerative colitis. Sveik. apsaug. no.7:18-20 '62.
(COLITIS ULCERATIVE)

GINA, J.

Treatment of chronic lupus erythematosus with acrichine; preliminary communication. Przegl. derm., Warsz. 2 no.2:225-230 Apr-June 1952. (CLML 23:2)

1. Of the Dermatological Clinic (Head--Prof. H. Mierzecki, M.D.) of Wroclaw Medical Academy.

CAPINSKI, Tadeusz Zbigniew; GINA, Jerzy; LAPINSKA, Janina

Attempts to introduce in Poland a new method for transporting gonorrheal specimens for culturing. Przegl. derm. 51 no.2:175-179 Mr-Ap '64.

1. Z Wojewodzkiej Przychodni Skorno-Wenerologicznej w Krakowie (Dyrektor: dr T.Z. Capinski) i z Wojewodzkiej Przychodni Skorno-Wenerologicznej w Warszawie (Dyrektor: dr J. Lapinska).

GINALI, V.N., aspirant

Our experience with dental prostheses in Popov's phenomenon.
Med. zhur. Uzb. no.6:63-65 Je'63 (MIRA 17:3)

1. Iz kafedry ortopedicheskoy stomatologii (zav. - dotsent A.T. Busygin) Tashkentskogo meditsinskogo instituta.

S/044/62/000/009/008/069
A060/A000

IL-400

AUTHOR: Ginalski, Czesław, Kapcia, Andrzej

TITLE: On a class of equations solved with respect to a function

PERIODICAL: Referativnyy zhurnal, Matematika, no. 9, 1962, 25, abstract 9B132 ("Zesz. nauk. Politechn. częstochow.", 1960, no. 7, 3 - 6; Polish; Summaries in Russian, English)

TEXT: The paper considers an equation of the form

$$y' = xy + \varphi(x) f(y') + g(y') . \quad (1)$$

By differentiating both sides, it is brought into the form

$$- f(z) u' = g'(z) + f'(z) u + \varphi^{-}(u) , \quad (2)$$

where $z = y'$, $u = \varphi(x)$, φ^{-} is the function inverse to φ. The functions $\varphi(x)$ for which equation (2) takes the form of known equations are indicated and consequently equation (1) is solved by known methods.

From Author's summary

[Abstracter's note: Complete translation]

Card 1/1

GINALSKI, Czeslaw

Differential numbers. Nauki podstaw Czestochowa no.6:23-29 '64.

A certain isoperimetric property of conic sections and fractioned lines. Ibid.:31-49

1. Department of Mathematics of the Technical University, Czestochowa.

GINALSKI, Czeslaw

A certain class of polynomials. Nauki podstaw Czestochowa no.7: 29-36 '64.

A certain generalization of trigonometry. Ibid.: 37-64

1. Department of Mathematics of the Technical University, Czestochowa.

GINALSKI, Janusz

Tensometric method of measuring internal first order stresses in the surface layers of steel rings. Inst mech precyz 12 no. 1: 64-72 '64.

GINALSKI, Marian, mgr inz.

Safety valves. Przegl kolej mechan 13 no.10:304-307 O '61.

GINZBL', F. T.

Sowing

Economic effectiveness of check-sowing. Sots. sel'.khoz. no. 3, 1952.

MONTHLY LIST OF RUSSIAN ACCESSIONS, LIBRARY OF CONGRESS, A[illegible] 195[illegible]. UNCLASSIFIED.

GINAYLO, F. T.

Mekhanizatsiia kvadratno-gnezdovogo poseva propashnykh kul'tur [Checkrowing cultivated crops with the aid of agricultural machinery]. Moskva, Sel'khozpriz, 1953. 136 p.

SO: Monthly List of Russian Accessions, Vol. 7 No. 2 May 1954.

1. GINAYLO, F. T.

2. USSR (600)

4. Tillage

7. Cultivation technique of sowing in checkrows, Sov. agron., 11, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

GINAYLO, F.T.

F.T. Ginaylo, (Candidate in Agriculture), Mekhanizatsiya kvadratnogniezdovo poseva propashnykh kultur/ Mechanization of Square Hill-Check Sowing of Row Crops/, Sel'khozgiz, 8 sheets.

The structure of the SSh-6A seeder is described; instructions are given for preparing seed and fields for sowing; the basic agro-economic and operating features of the square hill-check method of sowing are presented.

The book is intended to help MTS workers, of MTS's, kolkhozes, and sovkhozes to master and properly utlize the SSh-6A seeder and intertillage aggregates for cultivating square hill-check sowings.

SO: U-6472, 15 Nov 1954

[illegible] A. A. [illegible].

Novyye Protsessy Otdelki Metallicheskoy Furnitury. (Iz Opyta Raboty Fabriki Zozhnykh Izdeliy). M., Gizlegprom., 1954. 23s. 20 SM (M-vo Pfom. Tovarov Shirokogo Potrebleniya SSSR. Tekhn. Upr. Otd. Tekhn. Informatsii. Obmen Perdovym Opytom). 1,000 Ekz. 50 k.--Sost. Ukazany Na Oborote Tit. L.-(54.54656) P.

621.793+621.794

SO: Knizhnaya, Letopis, Vol. 1, 1955

Ginberg, A.M.

Thermogalvanic method of finishing hardware of leather furnishings with a gold color. P. D. Aleksandrov and A. M. Ginberg. *Legkaya Prom.* 14, No. 6, 19-21(1954).—Procedures are given for application of gold color, by use of an undercoat of brass, Cu, or Cu-Sn alloy. B. Z. K.

GINBERG, Aleksandr Mironovich; BOGOYAVLENSKIY, L.I., otvetstvennyy redaktor; ALEKSEYEVA, M.N., redaktor; KOMTOROVICH, A.I., tekhnicheskiy redaktor

[Electroplating] Gal'vanotekhnika. Leningrad, Gos. soiuznoe izd-vo sudostroit. promyshl., 1956. 186 p. (MLRA 9:11)
(Electroplating)

Distr: 4E2c

Throwing power in electroplating. A. M. Shinberg and Yu. A. Klyachko. *Zhur. Prikład. Khim.* 30, 1701–6 (1957).—The throwing power of electrolytic cells was studied as a function of the time and the thickness distribution of the deposit at 38° with a c.d. of 20 amp./sq. dm. in a cell 1000 × 500 × 500 mm. with an electrolyte contg. $CuSO_4$ 250, H_2SO_4 70, and EtOH 10 g./l. The cathode consisted of 2 Cu plates, 100 × 100 × 1 mm., with insulated backs placed against each other. Cu anodes, 100 × 100 × 10 mm., were placed parallel to and at a distance of 100 mm from each side of the cathode. The electrolyte was vigorously stirred with air and was continuously filtered. The thickness variations of the deposit z in horizontal planes at distances x and in vertical planes at distances y from the central intersecting planes were hyperbolic. Those in the horizontal planes fitted closely to the surfaces of $x^2/A^2 - z^2/B^2 = 1$. The surfaces in the vertical planes consisted of branches of 2 different hyperbolas $z^2/A^2 - y^2/B^2 = 1$. The deviation between the actual and the fitted surfaces did not exceed 10%. The values of A/B of the upper, middle, and lower hyperbolas of the horizontal planes were: 1 hr., 0.0374, 0.0024, and 0.0043; 10 hrs., 0.0044, 0.00241, and 0.0566; 20 hrs., 0.100, 0.0429, and 0.127. The curvature of the upper branch in the vertical planes was lower than that in the lower branch. I. Bencowitz

129-2-7/11

AUTHORS: Ginberg, A.M., Candidate of Technical Sciences and Klyachko, Yu.A., Doctor of Chemical Sciences, Professor.

TITLE: Dependence of the Mechanical Properties of Electrically-deposited Copper on the Regime of Electrolysis and the Composition of the Electrolyte (Zavisimost' mekhanicheskikh svoystv elektroosazhdennoy medi ot rezhima elektroliza i sostava elektrolita)

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, No. 2, pp. 35 - 37 (USSR).

ABSTRACT: Literary data on the mechanical properties of copper obtained in sulphuric acid electrolytes are inadequate and contradictory. This is attributed to the fact that individual authors tested electrolytically deposited layers which were produced under differing electrolysis regimes in electrolytes of various compositions and differing subsequent heat treatments. For determining the mechanical properties of electrically deposited copper and elucidating the dependence of these properties on the cathode current density in the electrolyte composition, the authors of this paper carried out special tests, using as specimens hollow tubes 250 mm long, 30 mm inner diameter and with a wall thickness of 1mm. As a pattern for producing these, an aluminium tube of 30 mm outer diameter and

Card1/3

Dependence of the Mechanical Properties of Electrically Deposited Copper on the Regime of Electrolysis and the Composition of the Electrolyte.

a wall thickness of 1 mm was used. The deposition of copper on the patterns was effected simultaneously in two electrolytes, one consisting of 250 g/litre of blue vitriol, 70 g/litre of sulphuric acid and an addition of 10 g/litre of ethyl alcohol, and the other one consisting of the same electrolyte but without the addition. The electrolysis in the electrolyte with ethyl alcohol was effected with a current density of 1.8, 5, 10, 15, 20 and 25 A/dm^2, whilst the current density for the electrolyte not containing ethyl alcohol addition was 1.8 and 5 A/dm^2, respectively. Under each regime, 10 specimens were produced. The specimens produced in the electrolyte without the ethyl alcohol addition, using a current density of 1.8 A/dm^2, had a strength of 12 kg/mm^2, a relative elongation of 11% and, in the case of a current density of 5 A/dm^2, the respective values were 17 kg/mm^2 and 16.2%. The dependence of the strength and the relative elongation of electrolytic copper on the current density in electrolytes with ethyl alcohol addition are graphed in Fig. 1. The Debye patterns, obtained by V.M. Rozenberg (Fig. 2), show that from a current density

Dependence of the Mechanical Properties of Electrically Deposited Copper on the Regime of Electrolysis and the Composition of the Electrolyte.

of 15 A/dm^2 onwards, a texture is observed if a surface-active substance is present. It is concluded that the strength and the relative elongation of the electrolytic copper can be varied by varying the current density during electrolysis and introducing a surface-active substance into the electrolyte. The strength of copper deposited with a current density of 25 A/dm^2 inside electrolytes containing ethyl alcohol addition approaches the maximum attainable strength of copper components after various types of mechanical working and the relative elongation drops to 2%. The increase in the strength of electrolytically deposited copper with increasing current density and presence of a surface-active substance is attributed to the texturing of the deposit. There are 2 figures and 2 Slavic references.

AVAILABLE: Library of Congress

Card 3/3

5(2)

SOV/80-32-3-16/43

AUTHOR: Ginberg, A.M.

TITLE: The Dissolution of Aluminum in Acids and Lyes in the Ultrasound Field (Rastvoreniye alyuminiya v kislotakh i shchelochakh v ul'trazvukovom pole)

PERIODICAL: Zhurnal prikladnoy khimii, 1959, Vol XXXII, Nr 3, pp 563-566 (USSR)

ABSTRACT: Aluminum dyes are used in galvanoplastic processes for the production of hollow parts. After electric precipitation the dyes are dissolved in NaOH or HCl solution. The application of ultrasound accelerates the dissolution. For NaOH the best results were obtained at 60°C and a frequency of 16 kilocycles with an intensity of w/cm^2. In HCl solution with ultrasound applied the dissolving rate is at first decreased, but at a frequency of 16 kilocycles and an intensity of 1.3 w/cm^2 the process is accelerated. On the anode aluminum forms a hydroxide which dissolves by forming aluminate. This diffuses in the solution. In HCl solution easily soluble aluminum chloride is formed.

Card 1/2

SOV/80-32-3-16/43

The Dissolution of Aluminum in Acids and Lyes in the Ultrasound Field

There are 2 graphs, 1 diagram and 3 references, 2 of which are Soviet and 1 German.

SUBMITTED: May 12, 1958

Card 2/2

PHASE I BOOK EXPLOITATION SOV/4956

Ginberg, A. M., L. M. Mashevich, and B. N. Lesova

Pribor kontrolya i upravleniya rezhimami gal'vanicheskikh protsessov (PURP-1) (Device for Checking and Controlling the Operating Conditions of Electroplating Processes [PURP-1]) Leningrad, Sudpromgiz, 1960. 42 p. 8,300 copies printed.

Ed.: N. Golubeva; Tech. Ed.: R. K. Tsal.

PURPOSE: This booklet is intended for personnel engaged in the technical supervision of coating departments, and also for specialists concerned with the automation of processing in the electroplating shops of instrument-making and machine-building plants.

COVERAGE: The booklet describes in detail the technical features, main parameters, and electric circuits of a new device for the checking and control of the operating conditions of electroplating processes. The designs of certain units and of their main components, operational

Card 1/3

characteristics, and data concerning the testing of the device and its units in some metal-plating processing methods are reviewed in detail. No personalities are mentioned. There are 14 references, all Soviet.

TABLE OF CONTENTS:

Device for Checking (Cont.) SOV/4956

AVAILABLE: Library of Congress

Card 3/3

JP/dfk/ec
4-14-61

GINBERG, A.M.; NAYSHULER, M.A.

Ultrasonic preparation of a magnesium oxide suspension in carbon tetrachloride. Zhur. prikl. khim. 33 no.8:1729-1733 Ag '60. (MIRA 13:9)

(Magnesium oxide) (Ultrasonic waves) (Suspensions (Chemistry))

21902

1.1800 cCh 1087, 1160, 1454

S/117/61/000/005/005/009
A004/A104

AUTHORS: Gracheva, M. P., and Ginberg, A. M., Candidate of Technical Sciences

TITLE: Protective and ornamental films on aluminum

PERIODICAL: Mashinostroitel', no. 5, 1961, 42

TEXT: The author describes the production method of "ematal"-films, i. e. opaque oxidation films on aluminum. These films are generally produced in electrolytes containing titanium salts. The technological process of "ematalirovaniye" consists of the following: polishing - which should be carried out with pastes of high quality. The authors recommend white pastes on the base of aluminum oxide and French chalk; degreasing in organic solvents, e. g. gasoline, kerosene or white spirit; mounting on supports - the material for the supports should be pure aluminum or АМГ (AMG) and АМЦ (AMTs) alloys; chemical degreasing, which should be effected in a solution containing 10 g/liter caustic soda, 50 g/liter sodium triphosphate and 5 g/liter water glass. The solution temperature should be 60-70°C, the holding time 2-3 minutes. Preliminarily polished parts should be chemically degreased in a solution consisting of 10-15 g/liter mono- or di-derivatives of sodium phosphate and 5-10 g/liter ОП-7 (OP-7). The solution

Card 1/2

Protective and ornamental films on aluminum

S/117/61/000/005/005/009
A004/A104

temperature should be 80-100°C, holding time 5-15 minutes, pH = 5.5-8.5; purification - to eliminate the grayish film from the surface forming during degreasing. This operation is carried out in a 30% nitric acid solution at 18-20°C; "emata-lirovaniye", which is effected in an electrolyte containing 30 g/liter chromium anhydride and 1-2 g/liter boric acid. The process should take place at 45-50°C, holding time is one hour. At first the voltage is brought to 40 v and held for 30 minutes, during which the current density should amount to 0.4-0.5 amp/dm^2. Then the voltage is raised to 80 v for another 30 minutes while the current density is brought to 1.0 amp/dm^2. The processing conditions for the AMG and AMTs alloys are analogous; treatment in nitric acid solution - this operation is necessary to obtain rich colors during the painting of the film. 25-30% nitric acid is used at temperatures of 18-20°C, holding time is 1-2 minutes. Painting of the parts is carried out in aqueous solutions of organic dyes immediately after "emataliirovaniye". The pH-value of the dyestuffs greatly affects the quality of the paint. The pH-value can be corrected with the aid of acetic acid; sealing - during this operation the film pores are sealed and the dyestuff in the pores is fixed. Sealing is effected in distilled water, after which the parts are dried at 100°C. There is 1 table.

Card 2/2

GINBERG, A. M.; RYBAKOVA, Y. A.

"The effect of an ultrasonic field on the structure of electrolytic metal deposition."

report presented at the Intl Symp on Ultrasonics Application, Bratislava, 6-12 Sep 62.

GINBERG, Aleksandr Mironovich; GEVORKYAN, V.M., kand. tekhn. nauk, retsenzent; POPILOV, L.Ya., inzh., red.; TAIROVA, A.L., red. izd-va; VLADIMIROVA, L.A., tekhn. red.

[Ultrasonics in chemichal and electrochemical processes in the mamufacture of machinery] Ul'trazvuk v khimicheskikh i elektro-khimicheskikh protsessakh mashinostroeniia. Moskva, Mashgiz, 1962. 135 p. (MIRA 15:7)
(Ultrasonic waves—Industrial applications)

PHASE I BOOK EXPLOITATION SOV/6272

Ginberg, Aleksandr Mironovich.

Tekhnologiya gal'vanotekhnika (Technology of Electroplating). Leningrad, Sudpromgiz, 1962. 279 p. 13,300 copies printed.

Reviewer: G. T. Bakhvalov, Doctor of Technical Sciences; Scientific Ed.: I. D. Gruyev; Ed.: N. N. Vasil'yeva; Tech. Ed.: R. K. Tsal.

PURPOSE: This book is intended for foremen and workmen of electroplating plants.

COVERAGE: The book reviews modern electroplating processes, as well as anodizing and chemical coating processes and those electroforming processes which are widely employed in the instrument-making and machine-building industries. Zinc, cadmium, copper, silver, nickel, and chromium electroplating procedures are discussed at length. In view of the wide use of aluminum, magnesium, and titanium as structural materials, the problems of coating these metals and their alloys are dealt with in detail. No personalities are mentioned. There are 73 references, all Soviet.

Card 1/

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AUTHORS: Ginberg, A.M. and Layner, B.D.

TITLE: Influence of the structure of the copper substrate on the structure of electrodeposited nickel

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 12, 1962, 2679-2683

TEXT: The effect of varying certain conditions of electrodeposition on the influence exerted by the orientation of a coarse-grained copper substrate on the structure of an electrodeposited nickel film was investigated. It was found that in the electrodeposition of nickel from the usual sulfate-type solutions on to very coarse-grained copper, the latter always exerts a pronounced influence on the orientation of the deposit. The film thickness to which this influence persists depends however on the conditions of electrodeposition. One of the governing factors is current density. With increase in current density, the influence of the basis metal orientation ceases at ever-decreasing film thicknesses, and a change in

Card 1/2

Influence of the structure ...

current density after the film has attained a thickness of above 2000 Å has a particularly pronounced effect from this point of view. The grain size and orientation at the substrate surface has a marked bearing on the film thickness to which the orientation effect persists. The latter increases with increase in grain size. In the electrodeposition of nickel on to coarse-grained copper, nickel grains of various sizes and orientations can form on the same specimen owing to the edge effect. There are 6 figures.

SUBMITTED: August 31, 1961

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ACCESSION NR: AM4043699 BOOK EXPLOITATION

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Ginberg, Aleksandr Mironovich

Ultrasonics in chemical and electrochemical machine-building processes (Ul'trazvuk v khimicheskikh i elektrokhimicheskikh protsessakh mashinostroyeniya), Moscow, Mashgiz, 1962, 135 p. illus., biblio. Errata slip inserted. 6,000 copies printed.

TOPIC TAGS: ultrasonics, metal coating, metal mechanical property, ultrasonic equipment, steel, metal deposition

PURPOSE AND COVERAGE: This book discusses the problems of the use of ultrasonics in the chemical processes of machine and instrument building: in the cleaning of metal surfaces of grease and oil, scale and corrosion products, soldering fluxes, and in the chemical and electrochemical processes of obtaining coatings, for restoring mechanical properties of steel after electrochemical treatment, the preparation of suspensions, and in a number of other operations. In addition to descriptions of processes in production, the results of research in this area are included. The book is intended for researchers and technicians, of enterprises and organizations interested in the possibilities of the application of ultrasonics to intensify technological processes and those working in this area.

Card 1/2